

In the Claims

Applicant has submitted a new complete claim set showing marked up claims with insertions indicated by underlining and deletions indicated by strikeouts and/or double bracketing.

Please amend pending claims 2-4, 6, 8-12, 14, 15, 17, 18, 25-30, 32, and 35-37 as noted below.

1. (Original) An information processing apparatus, comprising:
 - production means for producing a plurality of first graphic images representative of output data to be outputted to a different information processing apparatus;
 - display means for successively displaying the first graphic images produced by said production means;
 - detection means for detecting a plurality of second graphic images representative of input data inputted from said different information processing apparatus in response to successive display of the second graphic images on said different information processing apparatus; and
 - acquisition means for acquiring the input data based on the second graphic images detected by said detection means.

2. (Currently amended) An information processing method, comprising:
 - a production step of producing a plurality of first graphic images representative of output data to be outputted to a ~~different~~ an information processing apparatus;
 - a display step of successively displaying the first graphic images produced ~~by the process~~ at the production step;
 - a detection step of detecting a plurality of second graphic images representative of input data inputted from said ~~different~~ information processing apparatus in response to successive display of the second graphic images on said ~~different~~ information processing apparatus; and
 - an acquisition step of acquiring the input data based on the second graphic images detected ~~by the process~~ at the detection step.

3. (Currently amended) A recording medium on which a computer-executable ~~readable~~ program is recorded, the program comprising instructions for executing:

a production step of producing a plurality of first graphic images representative of output data to be outputted to ~~a different~~ an information processing apparatus;

a display controlling step of controlling successive display of the first graphic images produced ~~by the process~~ at the production step;

a detection controlling step of controlling detection of a plurality of second graphic images representative of input data inputted from said ~~different~~ information processing apparatus in response to successive display of the second graphic images on said ~~different~~ information processing apparatus; and

an acquisition step of acquiring the input data based on the second graphic images detected ~~by the process~~ at the detection controlling step.

4. (Currently amended) A program for causing a computer to execute:

a production step of producing a plurality of first graphic images representative of output data to be outputted to ~~a different~~ an information processing apparatus;

a display controlling step of controlling successive display of the first graphic images produced ~~by the process~~ at the production step;

a detection controlling step of controlling detection of a plurality of second graphic images representative of input data inputted from said ~~different~~ information processing apparatus in response to successive display of the second graphic images on said ~~different~~ information processing apparatus; and

an acquisition step of acquiring the input data based on the second graphic images detected ~~by the process~~ at the detection controlling step.

5. (Original) An information processing apparatus, comprising:

production means for producing a plurality of graphic images representative of output data to be outputted to a different information processing apparatus; and

display means for successively displaying the graphic images produced by said production means.

6. (Currently amended) The information processing apparatus according to claim 5, wherein the graphic images are two-dimensional codes, each of which represents data of a predetermined data amount.

7. (Original) The information processing apparatus according to claim 5, wherein an image of one frame is displayed by a single screen scanning operation, and said display means successively displays one of the graphic images every time one frame is displayed.

8. (Currently amended) The information processing apparatus according to claim 5, wherein the output data ~~are~~ comprises image data, and said display means successively displays an image based on the image data and displays one of the graphic images in ~~the~~ proximity of the displayed image.

9. (Currently amended) The information processing apparatus according to claim 5, further comprising outputting means for outputting sound based on music data, and wherein the output data are music data, and said display means successively displays the graphic images in synchronism with said outputting means ~~outputs~~ outputting sound ~~based on the output data.~~

10. (Currently amended) An information processing method, comprising:
 a production step of producing a plurality of graphic images representative of output data to be outputted to ~~a different~~ an information processing apparatus; and
 a display step of successively displaying the graphic images produced ~~by the process~~ at the production step.

11. (Currently amended) A recording medium on which a computer-executable ~~readable~~ program is recorded, the program comprising instructions for executing:
 a production step of producing a plurality of graphic images representative of output data to be outputted to ~~a different~~ an information processing apparatus; and
 a display controlling step of controlling successive display of the graphic images produced ~~by the process~~ at the production step.

12. (Currently amended) A program for causing a computer to execute:
a production step of producing a plurality of graphic images representative of output data to be outputted to ~~a different~~ an information processing apparatus; and
a display controlling step of controlling successive display of the graphic images produced ~~by the process~~ at the production step.

13. (Original) An information processing apparatus, comprising:
detection means for successively detecting a plurality of graphic images representative of input data inputted from a different information processing apparatus through successive display of the graphic images on said different information processing apparatus; and
acquisition means for acquiring the input data based on the graphic images successively detected by said detection means.

14. (Currently amended) The information processing apparatus according to claim 13, wherein the graphic images are two-dimensional codes, each of which represents data of a predetermined data amount.

15. (Currently amended) The information processing apparatus according to claim 13, further comprising:
display means for displaying a predetermined image; and
formation means for forming, at a portion of a display region of said display means in which the predetermined image is displayed, a detection region in which the graphic images are successively detected by said detection means.

16. (Original) The information processing apparatus according to claim 15, wherein said formation means forms the detection region by applying, to each of pixels in the display region in which the detection region is formed, a voltage reverse to a voltage which is applied to each of pixels which display the image.

17. (Currently amended) The information processing apparatus according to claim 15, wherein said detection means detects electric current generated in response to light from the outside in an active semiconductor layer of a transistor disposed in each of pixels which form the detection region ~~to detect any of the graphic images.~~

18. (Currently amended) The information processing apparatus according to claim 15, wherein said detection means detects electric current generated in response to light from the outside in an electroluminescent element disposed in each of pixels which form the detection region ~~to detect any of the graphic images.~~

19. (Original) The information processing apparatus according to claim 15, wherein said formation means forms the detection region such that the detection region is successively moved in synchronism with scanning of a screen by said display means.

20. (Original) The information processing apparatus according to claim 13, further comprising processing means for processing, when said acquisition means acquires instruction information associated with the input data and indicating a process of the input data, the input data in accordance with the instruction information.

21. (Original) The information processing apparatus according to claim 20, wherein the input data acquired by said acquisition means are image data, and said processing means controls display of an image corresponding to the image data based on the instruction information.

22. (Original) The information processing apparatus according to claim 20, wherein said processing means stores the input data acquired by said acquisition means in accordance with the instruction information.

23. (Original) The information processing apparatus according to claim 20, wherein said processing means controls transmission of the input data acquired by said acquisition means to another apparatus in accordance with the instruction information.

24. (Currently amended) An information processing method, comprising:
 a detection step of successively detecting a plurality of graphic images representative of input data inputted from a different information processing apparatus through successive display of the graphic images on said different information processing apparatus; and
 an acquisition step of acquiring the input data based on the graphic images successively detected ~~by the process~~ at the detection step.

25. (Currently amended) A recording medium on which a computer-executable ~~readable~~ program is recorded, the program comprising instructions for executing:
 a detection controlling step of controlling successive detection of a plurality of graphic images representative of input data inputted from ~~a different~~ an information processing apparatus through successive display of the graphic images on said ~~different~~ information processing apparatus; and
 an acquisition step of acquiring the input data based on the graphic images successively detected ~~by the process~~ at the detection controlling step.

26. (Currently amended) A program for causing a computer to execute:
 a detection controlling step of controlling successive detection of a plurality of graphic images representative of input data inputted from ~~a different~~ an information processing apparatus through successive display of the graphic images on said ~~different~~ information processing apparatus; and
 an acquisition step of acquiring the input data based on the graphic images successively detected ~~by the process~~ at the detection controlling step.

27. (Currently amended) An information processing apparatus, comprising:
 a display section including a plurality of pixels each including an electroluminescent element for emitting light to display an image;
 changeover means for changing over ~~the~~ direction of a voltage to be applied to each ~~of the~~ electroluminescent ~~elements~~ element to change over driving of the electroluminescent element between driving for light emission and driving for light reception; and

detection means for detecting an input from the outside based on electric current generated in any ~~of the~~ electroluminescent ~~elements~~ element driven for light reception as a result of ~~the~~ a changeover by said changeover means when ~~the~~ an electroluminescent element receives light.

28. (Currently amended) The information processing apparatus according to claim 27, wherein said changeover means forms a detection region, including a plurality of ~~the~~ pixels whose respective electroluminescent elements are driven for light reception, in a predetermined region of said display section.

29. (Currently amended) The information processing apparatus according to claim 28, wherein said changeover means forms a display region, including a plurality of ~~the~~ pixels whose respective electroluminescent elements are driven for light emission, in a region of said display section ~~which~~ separated from the detection region.

30. (Currently amended) The information processing apparatus according to claim 27, wherein said changeover means forms, in ~~the~~ proximity of a first pixel including a first electroluminescent element driven for light emission, a second pixel including a second electroluminescent element driven for light reception, and said detection means detects an input from the outside based on electric current generated when said second electroluminescent element receives reflected light originating from ~~the~~ light emitted from said first electroluminescent element.

31. (Currently amended) The information processing apparatus according to claim 30, wherein said detection means detects that a predetermined object is positioned in ~~the~~ proximity of a surface of said display section as an input from the outside.

32. (Currently amended) The information processing apparatus according to claim 30, wherein said detection means detects plane information of an object which contacts with or is positioned in the proximity of a surface of said display section as an input from the outside based on electric current generated when said second

electroluminescent element receives reflected light originating from ~~the~~ light emitted from said first electroluminescent element.

33. (Original) The information processing apparatus according to claim 30, wherein said first electroluminescent element emits light of a predetermined wavelength, and said second electroluminescent element has a high light reception sensitivity to light of the predetermined wavelength.

34. (Original) The information processing apparatus according to claim 27, further comprising image formation means for forming an image of an object positioned remotely from said display section, and wherein said detection means detects an image of an object formed by said image formation means' as an input from the outside based on electric current generated when any of the electroluminescent elements which is driven for light reception receives light.

35. (Currently amended) An information processing method for an information processing apparatus which includes a display section including a plurality of pixels each including an electroluminescent element for emitting light to display an image, the method comprising:

a changeover step of changing over ~~the~~ direction of a voltage to be applied to each ~~of the~~ electroluminescent ~~elements~~ element to change over driving of the electroluminescent element between driving for light emission and driving for light reception; and

a detection step of detecting an input from the outside based on electric current generated in any ~~of the~~ electroluminescent ~~elements~~ element driven for light reception as a result of ~~the~~ a changeover ~~by the process~~ at the changeover step when ~~the~~ an electroluminescent element receives light.

36. (Currently amended) A recording medium on which a computer-executable ~~readable~~ program for causing a computer to perform an information process by an information processing apparatus which includes a display section including a plurality of

pixels each including an electroluminescent element for emitting light to display an image is recorded, the program comprising instruction for executing:

a changeover step of changing over ~~the~~ direction of a voltage to be applied to each ~~of the~~ electroluminescent ~~elements~~ element to change over driving of the electroluminescent element between driving for light emission and driving for light reception; and

a detection step of detecting an input from the outside based on electric current generated in any ~~of the~~ electroluminescent ~~elements~~ element driven for light reception as a result of ~~the~~ a changeover ~~by the process~~ at the changeover step when the electroluminescent element receives light.

37. (Currently amended) A program for causing a computer to execute an information process by an information processing apparatus which includes a display section including a plurality of pixels each including an electroluminescent element for emitting light to display an image, the program comprising instructions for executing:

a changeover step of changing over ~~the~~ direction of a voltage to be applied to each ~~of the~~ electroluminescent ~~elements~~ element to change over driving of the electroluminescent element between driving for light emission and driving for light reception; and

a detection step of detecting an input from the outside based on electric current generated in any ~~of the~~ electroluminescent ~~elements~~ element driven for light reception as a result of ~~the~~ a changeover ~~by the process~~ at the changeover step when the electroluminescent element receives light.